



**(43) International Publication Date**  
**10 February 2005 (10.02.2005)**

## PCT

**(10) International Publication Number**  
**WO 2005/013604 A1**

- (51) **International Patent Classification<sup>7</sup>:** **H04N 5/06**

(21) **International Application Number:** **PCT/US2004/021545**

(22) **International Filing Date:** **7 July 2004 (07.07.2004)**

(25) **Filing Language:** **English**

(26) **Publication Language:** **English**

(30) **Priority Data:**  
60/490,573 28 July 2003 (28.07.2003) US

(71) **Applicant (for all designated States except US):** **THOMSON LICENSING S.A. [FR/FR]; 46, Quai A. Le Gallo, F-92100 Boulogne-Billancourt (FR).**

(72) **Inventor; and**

(75) **Inventor/Applicant (for US only):** **LENDARO, Jeffery, Basil [US/US]; 1107 East Logan Street, Noblesville, Indiana 46060 (US).**

(74) **Agents:** **TRIPOLI, Joseph, S. et al.; Two Independence Way, Suite #200, Princeton, New Jersey 08540 (US).**

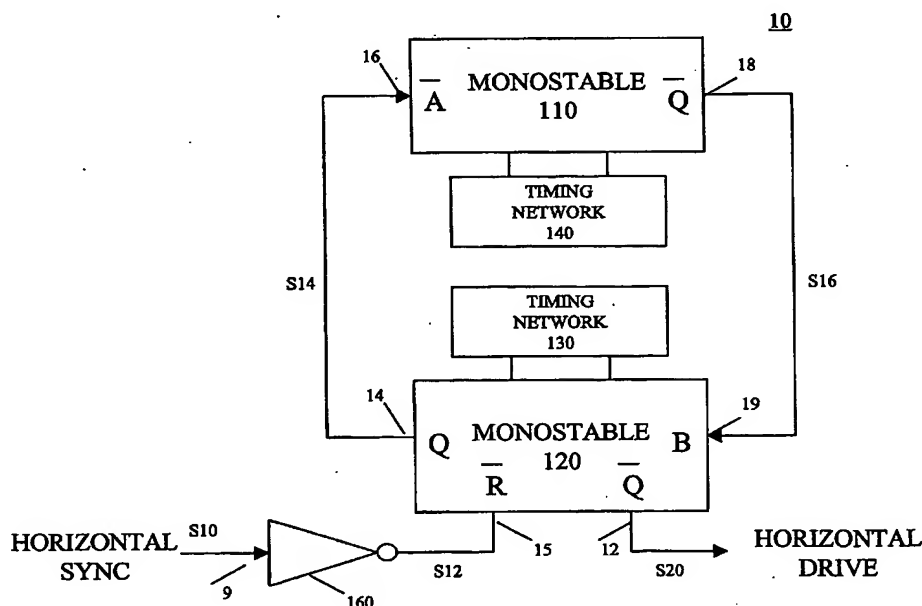
(81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**  
— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**(54) Title:** TIMING GENERATOR



**(S7) Abstract:** A timing generator and method of developing drive signals (S10) which, when input sync signals (S10) are present, delivers the leading and trailing edges of the input pulses (TS) directly to a drive output (TD) and which generates a free-running signal (S20') when input sync pulses are not present.

**WO 2005/013604 A1**